

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name:** MxQuant-NPH Quality controls (QC1 - QC3)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### **Application of the substance / the mixture**

Quality control material - For research use only. Not for use in diagnostic procedures.

### 1.3 Details of the supplier of the safety data sheet

#### **Manufacturer/Supplier:**

**biocrates life sciences ag**

Eduard-Bodem-Gasse 8

A-6020 Innsbruck

T: +43 512 57 98 23

F: +43 512 57 98 23 329

**Further information obtainable from:** Email: [office@biocrates.com](mailto:office@biocrates.com)

### 1.4 Emergency telephone number:

+43 512 57 98 23

Available during office hours:

Mo-Fr: 9 a.m. - 5 p.m.

**Call the national emergency number!**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** void

**Hazard pictograms** void

**Signal word** void

**Hazard statements** void

**Additional information:**

100 % of the mixture consists of component(s) of unknown toxicity.

Contains 100 % of components with unknown hazards to the aquatic environment.

### 2.3 Other hazards

The product contains not fully tested substances and must be used with the required caution.

Dust can cause irritation of eyes, skin, nose and throat through mechanical friction.

#### **Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

#### **Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine-disrupting properties  $\geq 0.1$  % (w/w).

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Plasma-based quality control material.

**Dangerous components:** void

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information:**

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Rinse skin with water.

Seek medical treatment in case of complaints.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible.

In case of fire, the following can be released:

CO<sub>x</sub>

#### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Avoid breathing dust.

Keep away from ignition sources.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

### **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the material collected according to regulations.

### **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

Prevent formation of dust.

Avoid breathing dust.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

### **Information about fire - and explosion protection:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage:**

#### **Requirements to be met by storerooms and receptacles:**

Store in accordance with local/regional/national/international regulations.

Store in a dry, cool, well-ventilated area.

**Information about storage in one common storage facility:** Store away from incompatible materials.

#### **Further information about storage conditions:**

Store in dry conditions.

Keep container tightly sealed.

**Storage class:** 11

**7.3 Specific end use(s)** No further relevant information available.

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**Trade name: MxQuant-NPH Quality controls (QC1 - QC3)**

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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**DNELs** No data available.

**PNECs** No data available.

#### **Regulatory information**

#### **Additional Occupational Exposure Limit Values for possible hazards during processing:**

The national dust limits must be observed in the event of dust generation.

**Additional information:** The lists valid during the making were used as basis.

### **8.2 Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

#### **Individual protection measures, such as personal protective equipment**

##### **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

Avoid breathing dust.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### **Respiratory protection:**

Wear respiratory protection during dust formation.

EN 149

FFP2 / FFP3 (depending on exposure)

##### **Hand protection**

Protective gloves recommended.

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

##### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

##### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### **Eye/face protection**

Safety glasses

EN 166

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**Body protection:**

Protective work clothing

Select type and quality of protection clothes depending on concentration and quantity at the workplace.

**Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Solid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	No information available.
<b>Melting point/freezing point:</b>	No information available.
<b>Boiling point or initial boiling point and boiling range</b>	No information available.
<b>Flammability</b>	No information available.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	No information available.
<b>Upper:</b>	No information available.
<b>Flash point:</b>	Not applicable.
<b>Decomposition temperature:</b>	No information available.
<b>pH</b>	Not applicable.
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not applicable.
<b>Dynamic:</b>	Not applicable.
<b>Solubility</b>	
<b>water:</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	No information available.
<b>Vapour pressure:</b>	Not applicable.
<b>Density and/or relative density</b>	
<b>Density:</b>	No information available.
<b>Vapour density</b>	Not applicable.
<b>Particle characteristics</b>	See section 3.

**9.2 Other information**

**Appearance:**

**Form:** Solid

**Important information on protection of health and environment, and on safety.**

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Change in condition**

**Oxidising properties** No information available.

**Evaporation rate** No information available.

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**Information with regard to physical hazard classes**

<b>Explosives</b>	void
<b>Flammable gases</b>	void
<b>Aerosols</b>	void
<b>Oxidising gases</b>	void
<b>Gases under pressure</b>	void
<b>Flammable liquids</b>	void
<b>Flammable solids</b>	void
<b>Self-reactive substances and mixtures</b>	void
<b>Pyrophoric liquids</b>	void
<b>Pyrophoric solids</b>	void
<b>Self-heating substances and mixtures</b>	void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	void
<b>Oxidising liquids</b>	void
<b>Oxidising solids</b>	void
<b>Organic peroxides</b>	void
<b>Corrosive to metals</b>	void
<b>Desensitised explosives</b>	void

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No further relevant information available.

**10.3 Possibility of hazardous reactions**

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

**10.4 Conditions to avoid**

Avoid formation of dust.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**10.5 Incompatible materials:** oxidizing agent

**10.6 Hazardous decomposition products:** No further relevant information available.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

The product contains not fully tested substances and must be used with the required caution.

100 % of the mixture consists of component(s) of unknown toxicity.

**Acute toxicity** Based on available data, the classification criteria are not met.

**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

**Other information**

To our knowledge, the chemical, physical and toxicological properties of the product have not been comprehensively investigated.

Dust may irritate skin, eyes and respiratory tract by mechanical irritation.

Unknown dangers cannot be ruled out.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:** Contains 100 % of components with unknown hazards to the aquatic environment.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

**European waste catalogue**

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
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16 03 06	organic wastes other than those mentioned in 16 03 05
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**Uncleaned packaging:**

**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

ADR/RID/ADN, ADN, IMDG, IATA

not regulated

**14.2 UN proper shipping name**

ADR/RID/ADN, ADN, IMDG, IATA

not regulated

**14.3 Transport hazard class(es)**

ADR/RID/ADN, ADN, IMDG, IATA

Class

not regulated

**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA

not regulated

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Maritime transport in bulk according to IMO**

instruments

Not applicable.

UN "Model Regulation":

not regulated

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

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**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:**

**Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative